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DNA Mapping Using Microfluidic Stretching and Single-Molecule Detection of Fluorescent Site-

EY Chan, NM Goncalves, RA Haeusler, AJ Hatch, JW ... - Genome Research, 2004 - Cold Spring Harbor Lab

... hydrodynamic forces generated in laminar flow by a ... DNA resists further elongation quite strongly ... consistent with complete DNA stretching, because insensitivity ...

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Methods and apparatus for characterization of single polymers

EY Chan, LC Gleich, PS Wellman - US Patent App. 09/875,779, 2001 - Google Patents

... velocities of single elongated polymers traveling in a flow. ... Stretch- ing or elongation of the polymer can be ... The stretching forces on the polymer are such that ...

Cited by 1 - Related articles - Web Search - All 9 versions

Advanced microfluidics

M Fuchs, J Larson - US Patent App. 10/821.664, 2004 - Google Patents

... 4 is a graph of applied elongation force versus percent of ... 14 is a view of two opposed

laminar flows impinging ... Such opposed flow can alter the flow of fluid ... Web Search

Direct haplotyping using carbon nanotube probes

CM Lieber, AT Woolley, JI Hahm, D Housman - US Patent App. 09/951,133, 2001 - Google Patents

... Al Figure I B -a* aA Elongation +-*\ b ^ B ... on a silicon substrate using the controlled

flow within a ... more nucleobase sequences of a probe or component polymer. ...

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Nano-PCR: methods and devices for nucleic acid amplification and detection

A Goel - US Patent App. 11/128,301, 2005 - Google Patents

... ssDNA template by applying stress, ie stretching or tension. ... anchored at one end in a fluid flow. ... acid polymers providing that the polymers contain nucleobases ...

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Conformation, Length, and Speed Measurements of Electrodynamically Stretched DNA in Nanochannels

CH Reccius, SM Stavis, JT Mannion, LP Walker, HG ... - Biophysical Journal, 2008 - Biophysical Soc Aldrich) to reduce both electroosmotic flow and nonspecific ... as a function of folding,

stretching and speed ... Elongation and folding caused by interactions with ...

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Microfluidic apparatus, systems, and methods for performing molecular reactions

N Sundararaian, L Sun, Y Zhang, X Su, S Chan, TW ... - US Patent App. 10/815,264, 2004 - Google Patents

... of synchronization in multi-molecule polymer reactions (eg ... The released bead can

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then flow downstream and ... include an amino acid, peptide, polypeptide, protein ...

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[PDF] Conjugated polymers, amyloid detection and assembly of biomolecular nanowires

A Herland - diva-portal.orgto the combination of conjugated polymers and biological ... exploring combinations of CPs and DNA, but later ... respect to the starting monomeric protein or peptide. ...

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... for bind- ing with a complementary nucleic acid se ... applications over the most common biological polymer. PHB, which ... et al. 2000a), with an elongation to break ...

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- J Katsaras, TA Harroun, MP Nieh, M Chakrapani, MJ ... Neutron Scattering in Biology: Techniques And Applications, 2006 books google.com
- ... on both ends, to reduce stretching of the ... in complex fluids include: micellar elongation

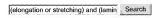
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Key authors: E Chan - M Fuchs - J Larson - N Goncalves - R Haeusler

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